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2	10	((node\$1 same relationship\$1 same graph\$1) or NRG\$1) same (bind\$4 same pair\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/14 16:44
3	1	(((node\$1 same relationship\$1 same graph\$1) or NRG\$1) same (bind\$4 same pair\$4)) same (subnode\$1 or sub-node\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/14 16:45
4	2	(sub-node\$1 or (sub adj node\$1)) same pattern\$1 same ((node\$1 same relationship\$1 same graph) or ngr\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/14 16:34
5	2	6055539.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/14 16:34
6	123	((node\$1 same relationship\$1 same graph\$1) or NRG\$1) and (bind\$4 same pair\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/14 16:45
7	3	(((node\$1 same relationship\$1 same graph\$1) or NRG\$1) and (bind\$4 same pair\$4)) and (subnode\$1 or sub-node\$1 or (sub adj node\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/14 16:45

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Pou-Yung Lee; Cheng, A.M.K.;
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[\[Abstract\]](#) [\[PDF Full-Text \(224 KB\)\]](#) [IEEE JNL](#)**6 Using support vector machines to enhance the performance of elastic graph matching for frontal face authentication***Tefas, A.; Kotropoulos, C.; Pitas, I.;*

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61 Object recognition by a Hopfield neural network

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Relevance scale **1 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Computing graphical queries over XML data

Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 4Full text available:  [pdf\(707.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be able not only to extract information from XML documents, but also to apply powerful transformation and restructuring operators, based on a well-defined semantics. Moreover, XML queries should be natural to write and understand, as nontechnical person ...

Keywords: Document restructuring, graphical query languages, semantics**3 Technique for automatically correcting words in text**

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4Full text available:  [pdf\(6.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

4 Meta data management: Rondo: a programming platform for generic model management

Sergey Melnik, Erhard Rahm, Philip A. Bernstein

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(392.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Model management aims at reducing the amount of programming needed for the development of metadata-intensive applications. We present a first complete prototype of a generic model management system, in which high-level operators are used to manipulate models and mappings between models. We define the key conceptual structures: models, morphisms, and selectors, and describe their use and implementation. We specify the semantics of the known model-management operators applied to these structures, ...

5 Natural language and voice output for relational data base systems

P. B. Powell, P. Thompson

January 1978 **Proceedings of the 1978 annual conference - Volume 2**

Full text available:  pdf(874.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A method to output answers and reasons in English and/or voice in a question-answering system is presented. The system for which the output is designed has a relational data base. A description of >-relations is given. A >-relation is one which has multiple values for the predicate or arguments of the relation. The natural language output uses predicate and function patterns for the >-relations. Pattern construction and pattern expansion into English sentences are des ...

Keywords: Answer/reason extraction, MRPPS 3.0, Natural language output, Question-answering system, Relational data base, Voice output

6 Draft Proposed: American National Standard—Graphical Kernel System

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Full text available:  pdf(16.07 MB) Additional Information: [full citation](#)

7 PLI workshops: On-the-fly model checking from interval logic specifications

Miguel J. Hornos, Manuel I. Capel

December 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 12

Full text available:  pdf(160.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Future Interval Logic (FIL) and its intuitive graphical representation, Graphical Interval Logic (GIL), can be used as the formal description language of model checking tools to verify hardware and software systems. An interval clearly defines the temporal scope over which properties are evaluated. From interval formulas specifying the temporal behavior of a system we obtain their semantically equivalent Büchi automata, but in such a way that our algorithm can be integrated into an on-the-f ...

8 Reduced distance routing in single-state shuffle-exchange interconnection networks

Ziao-Nan Tan, Kenneth C. Sevcik

May 1987 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1987**

ACM SIGMETRICS conference on Measurement and modeling of computer systems, Volume 15 Issue 1

Full text available:  pdf(1.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In multiprocessor architectures, it is frequently necessary to provide parallel communication among a potentially large number of processors and memories. Among the many interconnection schemes that have been proposed and analyzed, shuffle-exchange networks have received much attention due to their ability to allow a message to pass from any node to any other node in a number of steps that grows only logarithmically with the number of interconnected nodes (in the absence of contention) whil ...

9 Search strategy and selection function for an inferential relational system 

Jack Minker

March 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 1

Full text available:  pdf(2.29 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An inferential relational system is one in which data in the system consists of both explicit facts and general axioms (or "views"). The general axioms are used together with the explicit facts to derive the facts that are implicit (virtual relations) within the system. A top-down algorithm, as used in artificial intelligence work, is described to develop inferences within the system. The top-down approach starts with the query, a conjunction of relations, to be answered. Either ...

Keywords: answer and reason extraction, heuristics, inference mechanism, logic, predicate calculus, relational databases, search strategy, selection function, top-down search, virtual relations

10 On accelerating pattern matching for technology mapping 

Yusuke Matsunaga

November 1998 **Proceedings of the 1998 IEEE/ACM international conference on Computer-aided design**

Full text available:  pdf(506.73 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Industry/government track papers: Learning to detect malicious executables in the wild 

Jeremy Z. Kolter, Marcus A. Maloof

August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  pdf(216.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe the development of a fielded application for detecting malicious executables in the wild. We gathered 1971 benign and 1651 malicious executables and encoded each as a training example using n-grams of byte codes as features. Such processing resulted in more than 255 million distinct n-grams. After selecting the most relevant n-grams for prediction, we evaluated a variety of inductive methods, including naive Bayes, decision trees, support vector machines, and boosting. ...

Keywords: concept learning, data mining, malicious software, security

12 Pattern Matching in Trees 

Christoph M. Hoffmann, Michael J. O'Donnell

January 1982 **Journal of the ACM (JACM)**, Volume 29 Issue 1

Full text available:  pdf(1.45 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Multi Relational Data Mining (MRDM): A survey of kernels for structured data

Thomas Gärtner

July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1Full text available:  pdf(1.16 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Kernel methods in general and support vector machines in particular have been successful in various learning tasks on data represented in a single table. Much 'real-world' data, however, is structured - it has no natural representation in a single table. Usually, to apply kernel methods to 'real-world' data, extensive pre-processing is performed to embed the data into a real vector space and thus in a single table. This survey describes several approaches of defining positive definite kernels on ...

Keywords: inductive logic programming, kernel methods, multi-relational data mining, structured data

14 Characterizing the behavior of a program using multiple-length N-grams

Carla Marceau

February 2001 Proceedings of the 2000 workshop on New security paradigmsFull text available:  pdf(1.07 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: computational immunology, finite automata, intrusion detection, string processing

15 Movement in active production networks

Mark A. Jones, Alan S. Driscoll

July 1985 Proceedings of the 23rd conference on Association for Computational LinguisticsFull text available:  pdf(412.46 KB)Additional Information: [full citation](#), [abstract](#), [references](#) Publisher Site

We describe how movement is handled in a class of computational devices called *active production networks (APNs)*. The APN model is a parallel, activation-based framework that has been applied to other aspects of natural language processing. The model is briefly defined, the notation and mechanism for movement is explained, and then several examples are given which illustrate how various conditions on movement can naturally be explained in terms of limitations of the APN device.

16 Similarity-based retrieval for diverse bookshelf software repository users

Igor Jurisica

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative researchFull text available:  pdf(126.60 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper presents a similarity-based retrieval framework for a software repository that aids the process of maintaining, understanding, and migrating legacy software systems [12]. Designing a software repository involves three issues: (1) information content; (2) information representation; and (3) strategies for accessing repository artifacts. Assuming the architecture presented in [12] we extend the retrieval system to support imprecise queries, iterative browsing, and diverse users. Because o ...

17 Short papers: Discovery of ads web hosts through traffic data analysis

V. Bacarella, F. Giannotti, M. Nanni, D. Pedreschi

June 2004 Proceedings of the 9th ACM SIGMOD workshop on Research issues in data mining and knowledge discoveryFull text available:  pdf(189.30 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

One of the most actual problems on web crawling -- the most expensive task of any search engine, in terms of time and bandwidth consumption -- is the detection of useless segments of Internet. In some cases such segments are purposely created to deceive the crawling engine while, in others, they simply do not contain any useful information. Currently, the typical approach to the problem consists in using a human-compiled *blacklist* of sites to avoid (e.g., advertising sites and web counter ...)

18 A systematic study of functional language implementations

Rémi Douence, Pascal Fradet

March 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 20 Issue 2

Full text available:  pdf(273.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a unified framework to describe, relate, compare, and classify functional language implementations. The compilation process is expressed as a succession of program transformations in the common framework. At each step, different transformations model fundamental choices. A benefit of this approach is to structure and decompose the implementation process. The correctness proofs can be tackled independently for each step and amount to proving program transformations in the functi ...

Keywords: abstract machines, combinators, compilers, functional programming, program transformation

19 Pattern matching for sets of segments

Alon Efrat, Piotr Indyk, Suresh Venkatasubramanian

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms**

Full text available:  pdf(953.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present algorithms for a number of problems in geometric pattern matching where the input consist of a collections of segments in the plain. Our work consists of two main parts. In the first, we address problems and measures that relate to collections of orthogonal line segments in the plane. Such collections arise naturally from problems in mapping buildings and robot exploration.

We propose a new measure of segment similarity called a *coverage measure*, and pr ...

20 Hypermedia structures and the division of labor in meeting room collaboration

Gloria Mark, Jörg M. Haake, Norbert A. Streitz

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Full text available:  pdf(1.51 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: collaborative style, collaborative work, electronic meeting room, electronic whiteboard, empirical studies, group process, hypermedia user-interface, task division

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21 Functional programming with graphs 

Martin Erwig

August 1997 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN international conference on Functional programming**, Volume 32 Issue 8Full text available:  [pdf\(1.40 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Graph algorithms expressed in functional languages often suffer from their inherited imperative, state-based style. In particular, this impedes formal program manipulation. We show how to model persistent graphs in functional languages by graph constructors. This provides a decompositional view of graphs which is very close to that of data types and leads to a "more fictional" formulation of graph algorithms. Graph constructors enable the definition of general fold operations for graphs. We pres ...

22 Graphs and trees: Efficiently mining frequent trees in a forest 

Mohammed J. Zaki

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**Full text available:  [pdf\(1.26 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mining frequent trees is very useful in domains like bioinformatics, web mining, mining semistructured data, and so on. We formulate the problem of mining (embedded) subtrees in a forest of rooted, labeled, and ordered trees. We present TREEMINER, a novel algorithm to discover all frequent subtrees in a forest, using a new data structure called scope-list. We contrast TREEMINER with a pattern matching tree mining algorithm (PATTERNMATCHER). W ...

23 Timing-driven hierarchical global routing with wire-sizing and buffer-insertion for VLSI with multi-routing-layer 

Takahiro Deguchi, Tetsushi Koide, Shin'ichi Wakabayashi

January 2000 **Proceedings of the 2000 conference on Asia South Pacific design automation**Full text available:  [pdf\(192.18 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#)

24 Pattern-based tree attribution 

Charles Farnum

February 1992 **Proceedings of the 19th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Attribute grammars have been used for many language-oriented tasks, including the formal description of semantics and the implementation of compilation tasks from simple type checking through code generation. Despite their successful use, attribute grammars have some disadvantages, including the monolithic nature of the grammar and the fixed factoring of all attribute descriptions by a single set of grammar productions. Attribute pattern sets provide a more expressive attri ...

25 An interpreter generator using tree pattern matching 

Christoph M. Hoffmann, Michael J. O'Donnell

January 1979 **Proceedings of the 6th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available:  [pdf\(852.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Equations provide a rich, intuitively understandable notation for describing nonprocedural computing languages such as LISP and Lucid. In this paper, we present techniques for automatically generating interpreters from equations, analogous to well-known techniques for generating parsers from context-free grammars. The interpreters so generated are exactly faithful to the simple traditional mathematical meaning of the equations-no lattice-theoretic or fixpoint ideas are needed to explain the corr ...

26 Technical papers: software architecture I: Design Pattern Rationale Graphs: linking design to source 

Elisa L. A. Baniassad, Gail C. Murphy, Christa Schwanninger

May 2003 **Proceedings of the 25th international conference on Software engineering**

Full text available:   [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)
[Publisher Site](#)

A developer attempting to evolve a system in which design patterns have been applied can benefit from knowing which code implements which design pattern. For instance, the developer may be able to understand the purpose, or to assess the flexibility of the code, more quickly. The degree to which the developer benefits depends upon their understanding of the pattern. Achieving an in-depth understanding of even a simple pattern can be difficult as pattern descriptions span several pages of text, a ...

27 On the construction of efficient match networks 

Jack S. E. Tan, Jaideep Srivastava, Sashi Shekhar

April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**

Full text available:  [pdf\(741.21 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

28 A theory of parameterized pattern matching: algorithms and applications 

Brenda S. Baker

June 1993 **Proceedings of the twenty-fifth annual ACM symposium on Theory of computing**

Full text available:  [pdf\(1.27 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

29 Software evolution: Generating programming language-based pattern matchers 

Santanu Paul, Atul Prakash

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Full text available:  [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper is based on a logical extension of our past work in pattern matching tools [22],

24, 25] for reverse engineering. We explore two new directions: first, we investigate the need for new and more powerful source code and pattern representations to support a richer set of queries; and second, we develop the concept of automatic generation of pattern matchers for different programming languages starting from a high-level specification of the programming language. A generator will eliminate ...

30 Topology matching for fully automatic similarity estimation of 3D shapes

Masaki Hilaga, Yoshihisa Shinagawa, Taku Kohmura, Tosiyasu L. Kunii

August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques**

Full text available:  pdf(463.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is a growing need to be able to accurately and efficiently search visual data sets, and in particular, 3D shape data sets. This paper proposes a novel technique, called *Topology Matching*, in which similarity between polyhedral models is quickly, accurately, and automatically calculated by comparing Multiresolutional Reeb Graphs (MRGs). The MRG thus operates well as a search key for 3D shape data sets. In particular, the MRG represents the skeletal and topological structure of a 3 ...

Keywords: 3D search, computer vision, shape recognition

31 An improvement to bottom-up tree pattern matching

D. R. Chase

October 1987 **Proceedings of the 14th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available:  pdf(954.02 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

32 A graph-based framework for feature recognition

Sashikumar Venkataraman, Milind Sohoni, Vinay Kulkarni

May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Full text available:  pdf(941.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses a feature recognition system for recognizing User Defined Features (UDF). The feature recognizer uses a graph-based approach to represent and recognize features. An attributed face adjacency graph consisting of topological and geometric attributes is used to represent UDF's. The feature recognition step involves finding similar subgraphs in the part graph. The novelty of the framework lies in the usage of a rich set of attributes to recognize a wide range of features effi ...

Keywords: attributed graphs, boundary representation, design tree, feature interactions, feature parameterization, feature suppression, feature-based design, graph grammars, user-defined features

33 A new structural pattern matching algorithm for technology mapping

Min Zhao, Sachin S. Sapatnekar

June 2001 **Proceedings of the 38th conference on Design automation**

Full text available:  pdf(231.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, a new structural matching algorithm for technology mapping is proposed. The algorithm is based on a key observation that the matches for a node in a subject Boolean network are related to the matches for its children. The structural relationships between the library cells are modeled using a lookup table. The proposed method is fast, has low memory usage, and is easy to implement. Experimental results show speedups of 20x over Matsunaga's fast mapping approach, and orders of ...

34 PIRL—Pattern Information Retrieval Language—design of syntax

Sidney Berkowitz

January 1971 **Proceedings of the 1971 26th annual conference**Full text available:  pdf(945.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design of a pattern manipulation language, PIRL, is described here. PIRL can handle arbitrary, oriented patterns (i. e., subgraphs) of lists, nodes, numeric and Hollerith data on many levels of abstraction in a concise, legible manner. Patterns and lists may be inserted, retrieved, deleted, indexed, compared, named, intersected, united, and complemented.

Pattern names may be referenced to a lower level of abstraction and pattern forms may be quantified. PIRL should be of considerable va ...

Keywords: Association, Graph, Information retrieval, List attribute, Pattern, Programming language

35 On shortest path routing in single stage shuffle-exchange networks

Sunil Kim, Alexander V. Veidenbaum

July 1995 **Proceedings of the seventh annual ACM symposium on Parallel algorithms and architectures**Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [references](#), [index terms](#)**36 Automatic detection of recurring operation patterns**

Marnix Arnold, Henk Corporaal

March 1999 **Proceedings of the seventh international workshop on Hardware/software codesign**Full text available:  pdf(399.17 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: co-design, design space exploration, instruction set synthesis, pattern matching

37 Linear behaviour of term graph rewriting programs

Richard Banach, George A. Papadopoulos

February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**Full text available:  pdf(895.27 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: linear concurrent programming, programming languages for distributed execution, term graph rewriting

38 Music information retrieval: Harmonic models for polyphonic music retrieval

Jeremy Pickens, Tim Crawford

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**Full text available:  pdf(155.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Most work in the ad hoc music retrieval field has focused on the retrieval of monophonic documents using monophonic queries. Polyphony adds considerably more complexity. We present a method by which polyphonic music documents may be retrieved by polyphonic music queries. A new harmonic description technique is given, wherein the information from all chords, rather than the most significant chord, is used. This description is then combined in a new and unique way with Markov statistical methods t ...

39 Nonlinear pattern matching in trees

R. Ramesh, I. V. Ramakrishnan

April 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 2Full text available:  [pdf\(1.57 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tree pattern matching is a fundamental operation that is used in a number of programming tasks such as mechanical theorem proving, term rewriting, symbolic computation, and nonprocedural programming languages. In this paper, we present new sequential algorithms for nonlinear pattern matching in trees. Our algorithm improves upon known tree pattern matching algorithms in important aspects such as time performance, ease of integration with several reduction strategies and ability to avoid unne ...

Keywords: nonlinear pattern matching, normalization, rewriting, theorem proving

40 Special session on software systems #1: GXL: a new graph transformation language

Medha Shukla Sarkar

April 2004 **Proceedings of the 42nd annual Southeast regional conference**Full text available:  [pdf\(406.85 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

GXL - the graph transformation language presented in this abstract is a programmable graph rewriting language that combines ideas from current tree rewriting technology, exemplified by the TXL language, and general graph rewriting systems. From TXL it inherits the idea of scoping (limitation of a transformation rule to a particular sub tree or sub graph) and parameterization (working with multiple independent copies of a subtree or subgraph). From graph rewriting it inherits the generalization t ...

Keywords: graph grammars, graph rewriting, tree rewriting

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